Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-14. (Cancelled)
- 15. (Currently amended) An apparatus used as a component of a die bonder for placing a semiconductor chip on a substrate, comprising:

a first pivoted lever seated at one end on a first shaft, said first shaft mounted equidistantly between a first location and a second location;

a wafer table displaceable for presenting a semiconductor chip at a first location;

a displacement means for advancing the substrate and presenting a free substrate place of the substrate at a second location;

a lever mechanism consisting of a first pivoted lever and a second pivoted lever pivoting in horizontal planes, the first pivoted lever seated at one end on a first shaft, said first shaft mounted equidistantly between the first location and the second location, the second pivoted lever mounted by means of a second shaft located at another end of said first pivoted lever, a sum of lengths of said first and second pivoted levers equaling a distance from said first shaft to said first location or said second location;

a drive coupled to said first shaft for pivoting said first pivoted lever in alternating pivoting directions through an angle of pivoting, Φ between a first end position in which said first pivoted lever is directed toward said first location and a second end position in which said first pivoted lever is directed toward said second location;

a second pivoted lever mounted by means of a second shaft located at another end of said

first pivoted lever, a sum of lengths of said first and second pivoted levers equalling a distance

from said first shaft to said first location or said second location, said first and second pivoted

levers pivoting in horizontal planes;

a drive mechanism for rotating said second pivoted lever in an opposite pivoting direction

and with a predetermined gear ratio with respect to said first pivoted lever, the drive mechanism

coupling said first and second pivoted lever such that the second pivoted lever is in an extended

position with respect to said first pivoted lever when the first pivoted lever is in said first end

position or said second end position, the predetermined gear ratio, n, being defined by the formula

 $n=360^{\circ}/\Phi$; and

a semiconductor chip gripper seated at an opposing end of said second pivoted lever for

gripping the semiconductor chip presented at the first location when the first pivoted lever is in

said first end position and for placing the semiconductor chip on the free substrate place when

the first pivoted lever is in said second end position.

16. (Currently amended) The apparatus according to claim 15, wherein the angle of pivoting

of said first pivoted lever between said first and said second end positions equals 120°.

17. (Currently amended) The apparatus according to claim 15, wherein said drive

mechanism comprises:

a first toothed wheel coaxial to said first shaft;

a second toothed wheel coupled coaxialy to said second shaft; and

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a belt looped around and engaging said first and second toothed wheels.

- 18. (Currently amended) The apparatus according to claim 15, wherein said drive mechanism comprises:
 - a first toothed wheel coaxial to said first shaft;
 - a second toothed wheel coupled coaxialy to said second shaft; and an intermediate toothed wheel engaging said first and second toothed wheels.
- 19. (Currently amended) The apparatus according to claim 16, wherein said drive mechanism comprises:
 - a first toothed wheel coaxial to said first shaft;
 - a second toothed wheel coupled coaxialy to said second shaft; and
 - a belt looped around and engaging said first and second toothed wheels.
- 20. (Currently amended) The apparatus according to claim 16, wherein said drive mechanism comprises:
 - a first toothed wheel coaxial to said first shaft;
 - a second toothed wheel coupled coaxialy to said second shaft; and an intermediate toothed wheel engaging said first and second toothed wheels.
- 21. (Currently amended) The apparatus according to claim 17, wherein a gear ratio of said first toothed wheel and said second toothed wheel equals three.

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(Currently amended) The apparatus according to claim 18, wherein a gear ratio of said

first toothed wheel and said second toothed wheel equals three.

23. (Currently amended) The apparatus according to claim 19, wherein a gear ratio of said

first toothed wheel and said second toothed wheel equals three.

24. (Currently amended) The apparatus according to claim 20, wherein a gear ratio of said

first toothed wheel and said second toothed wheel equals three.

25. (Currently amended) The apparatus according to claim 15, wherein said chip gripper is

rigidly connected to said opposing end of said second pivoted lever.

26. (Currently amended) The apparatus according to claim 15, further comprising:

first and second delimiters arranged laterally to a direction of movement of said chip

gripper and operable to guide said chip gripper during times when said first pivoted lever is

conforming or disconforming to said end positions.

27. (Currently amended) The apparatus according to claim 16, further comprising:

first and second delimiters arranged laterally to a direction of movement of said chip

gripper and operable to guide said chip gripper during times when said first pivoted lever is

conforming or disconforming to said end positions.

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- 28. (Currently amended) The apparatus according to claim 17, further comprising:

 first and second delimiters arranged laterally to a direction of movement of said chip
 gripper and operable to guide said chip gripper during times when said first pivoted lever is
 conforming or disconforming to said end positions.
- 29. (Currently amended) The apparatus according to claim 18, further comprising:

 first and second delimiters arranged laterally to a direction of movement of said chip
 gripper and operable to guide said chip gripper during times when said first pivoted lever is
 conforming or disconforming to said end positions.
- 30. (Currently amended) The apparatus according to claim 19, further comprising:

 first and second delimiters arranged laterally to a direction of movement of said chip
 gripper and operable to guide said chip gripper during times when said first pivoted lever is
 conforming or disconforming to said end positions.
- 31. (Currently amended) The apparatus according to claim 20, further comprising:

 first and second delimiters arranged laterally to a direction of movement of said chip
 gripper and operable to guide said chip gripper during times when said first pivoted lever is
 conforming or disconforming to said end positions.
- 32. (Currently amended) The apparatus according to claim 21, further comprising:

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first and second delimiters arranged laterally to a direction of movement of said chip gripper and operable to guide said chip gripper during times when said first pivoted lever is conforming or disconforming to said end positions.

The apparatus according to claim 22, further comprising: (Currently amended) 33. first and second delimiters arranged laterally to a direction of movement of said chip gripper and operable to guide said chip gripper during times when said first pivoted lever is conforming or disconforming to said end positions.

- The apparatus according to claim 23, further comprising: 34. (Currently amended) first and second delimiters arranged laterally to a direction of movement of said chip gripper and operable to guide said chip gripper during times when said first pivoted lever is conforming or disconforming to said end positions.
- (Currently amended) The apparatus according to claim 24, further comprising: 35. first and second delimiters arranged laterally to a direction of movement of said chip gripper and operable to guide said chip gripper during times when said first pivoted lever is conforming or disconforming to said end positions.
- The apparatus according to claim 25, further comprising: (Currently amended) 36.

first and second delimiters arranged laterally to a direction of movement of said chip gripper and operable to guide said chip gripper during times when said first pivoted lever is conforming or disconforming to said end positions.

- 37. (Currently amended) The apparatus according to claim 15, further comprising:

 delimiter means for guiding said chip gripper at least during times when said first pivoted
 lever is conforming or disconforming to said end positions.
- 38. (Currently amended) The apparatus according to claim 17, further comprising:

 delimiter means for guiding said chip gripper at least during times when said first pivoted lever is conforming or disconforming to said end positions.
- 39. (Currently amended) The apparatus according to claim 18, further comprising:

 delimiter means for guiding said chip gripper at least during times when said first pivoted lever is conforming or disconforming to said end positions.
- 40. (Currently amended) An apparatus for placing a semiconductor chip on a major surface of a substrate, comprising:

between a first location and a second location; a drive coupled to said first shaft for pivoting said first pivoted lever in alternating pivoting directions through an angle of pivoting, Φ , between a

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first end position in which said first pivoted lever is directed toward said first location and a second end position in which said first pivoted lever is directed toward said second location;

a second pivoted lever mounted by means of a second shaft located at another end of said first pivoted lever, a sum of lengths of said first and second pivoted levers equalling a distance from said first shaft to said first location or said second location, said first and second pivoted levers configured to sweep through a plane parallel to the major surface of the substrate;

a wafer table displaceable for presenting a semiconductor chip at a first location;

a displacement means for advancing the substrate and presenting a free substrate place of the substrate at a second location;

a lever mechanism consisting of a first pivoted lever and a second pivoted lever, the first pivoted lever seated at one end on a first shaft, said first shaft mounted equidistantly between the first location and the second location, the second pivoted lever mounted by means of a second shaft located at another end of said first pivoted lever, a sum of lengths of said first and second pivoted levers equaling a distance from said first shaft to said first location or said second location, said first and second pivoted levers configured to sweep through a plane parallel to the major surface of the substrate;

a drive coupled to said first shaft for pivoting said first pivoted lever in alternating pivoting directions through an angle of pivoting, Φ, between a first end position in which said first pivoted lever is directed toward said first location and a second end position in which said first pivoted lever is directed toward said second location;

a drive mechanism for rotating said second pivoted lever in an opposite pivoting direction and with a predetermined gear ratio with respect to said first pivoted lever, the predetermined gear

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second pivoted lever such that the second pivoted lever is in an extended position with respect to

ratio, n, being defined by the formula n=360°/Φ, the drive mechanism coupling said first and

said first pivoted lever when the first pivoted lever is in said first end position or said second end

position; and

a semiconductor chip gripper seated at an opposing end of said second pivoted lever for

gripping the semiconductor chip presented at the first location when the first pivoted lever is in

said first end position and for placing the semiconductor chip on the free substrate place when

the first pivoted lever is in said second end position.

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